

MARCH 23 1979

Docket No. 50-251

Dr. Robert E. Uhrig
Vice President
Florida Power & Light Company
Advanced Systems & Technology
Post Office Box 529100
Miami, Florida 33152

Dear Dr. Uhrig:

The Commission has issued the enclosed Amendment No. 38 to Facility Operating License No. DPR-41 for the Turkey Point Nuclear Generating Station, Unit No. 4. The amendment is in response to your application dated February 16, 1979.

This amendment extends the current cycle 5 operating period before shutdown for steam generator inspection from six months to six months and ten days of equivalent operation (reactor coolant above 350°F).

Copies of the Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

Original Signed By

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

1. Amendment No. 38 to DPR-41
2. Safety Evaluation
3. Federal Register Notice

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cc w/enclosures:
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DATE →	3/5/79	3/9/79	3/14/79	3/16/79	3/17/79	3/23/79



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

March 23, 1979

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Sincerely,

A handwritten signature in cursive script, appearing to read "A. Schwencer".

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

1. Amendment No. 38 to DPR-41
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cc w/enclosures:
See next page

March 23, 1979

cc: Mr. Robert Lowenstein, Esquire
Lowenstein, Newman, Reis & Axelrad
1025 Connecticut Avenue, NW
Suite 1214
Washington, D.C. 20036

Environmental & Urban Affairs Library
Florida International University
Miami, Florida 33199

Mr. Norman A. Coll, Esquire
Steel, Hector and Davis
1400 Southeast First National
Bank Building
Miami, Florida 33131

Florida Power & Light Company
ATTN: Mr. Henry Yaeger
Plant Manager
Turkey Point Plant
P. O. Box 013100
Miami, Florida 33101

Honorable Dewey Knight
County Manager of Metropolitan
Dade County
Miami, Florida 33130

Bureau of Intergovernmental
Relations
660 Apalachee Parkway
Tallahassee, Florida 32304

Director, Technical Assessment Division
Office of Radiation Programs (AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U.S. Environmental Protection Agency
Region IV Office
ATTN: EIS COORDINATOR
345 Courtland Street, NW
Atlanta, Georgia 30308



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

FLORIDA POWER AND LIGHT COMPANY

DOCKET NO. 50-251

TURKEY POINT NUCLEAR GENERATING STATION UNIT NO. 4

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 38
License No. DPR-41

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Florida Power and Light Company (the licensee) dated February 16, 1979, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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2. Accordingly, paragraphs 3.B and 3.D.1 of Facility Operating License No. DPR-41 are hereby amended to read as follows:

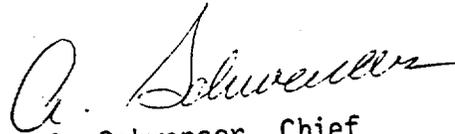
3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 38, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3.D.1. After equivalent operation in Cycle 5 of six months and ten days from September 22, 1978, Turkey Point Unit 4 shall be brought to the cold shutdown condition and the steam generators shall be inspected. For the purpose of this requirement, equivalent operation is defined as operation with the reactor coolant at a temperature greater than 350°F. Nuclear Regulatory Commission (NRC) approval shall be obtained before resuming power operation following this inspection.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Date of Issuance: March 23, 1979



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 38 TO LICENSE NO. DPR-41

FLORIDA POWER AND LIGHT COMPANY

TURKEY POINT NUCLEAR GENERATING STATION UNIT NO. 4

DOCKET NO. 50-251

Introduction

By letter dated February 16, 1979, Florida Power and Light Company (FP&L) submitted information to justify continued operation of Turkey Point Unit No. 4 (Unit 4) for additional ten days beyond the six equivalent full power months (EFPM) currently authorized by License Amendment No. 31 dated October 26, 1978. The bases for permitting operation of Unit 4 for the six EFPM was the inspection results submitted September 6, 1978, the implemented plugging patterns and the ECCS analysis submitted in support of Amendment 31. All of this information was evaluated in our supporting Safety Evaluation Report (SER) which is incorporated into this SER by reference.

Evaluation

We have reviewed the submittals made to support Amendment 31, which concluded that Unit 4 could be operated for an additional six EFPM, and considered the operating history of Unit 4 from September 1978 to the present time. No reactor coolant primary to secondary leaks through the steam generator tubes have been detected since cycle 5 operation began.

The preventive plugging criteria implemented by the licensee in September 1978 and evaluated in our above referenced SER was based on the projected growth of the 17.5% tube hoop strain contour over the proposed period of operation until the next inspection, i.e., six months. Tubes within this contour were assumed to attain the level of strain which could potentially lead to stress corrosion cracking and reactor coolant primary to secondary leakage. The predicted rate of this contour was 1/3 of a tube row per month over most of the tubelane and 2/3 of a tube row per month near the outside columns. Using a 2/3 of a tube row per month rate for all columns would result in approximately 2/9 tube row moving into the 17.5% strain contour during an additional 10 days of operation. Thus, for the requested 10 days extension to

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For further details with respect to this action, see (1) the application for amendment dated February 16, 1979, (2) Amendment No. 38 to License No. DPR-41, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Environmental & Urban Affairs Library, Florida International University, Miami, Florida 33199. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 23rd day of March, 1979.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

the current six month operating period, significantly less than one row of tubes would become enveloped in the critical hoop strain contour. Further, the finite element technique used as the basis to predict the growth of strain contours, was not precise enough to differentiate between six months or six months and ten days. Therefore, bases for the plugging criteria implemented at the beginning of the current six month operating period remain valid and may already bound those tubes that would be within the critical hoop strain contour at the end of a ten day extension.

Considering, (1) the 17.5% tube hoop strain contour will have spread through only 2/9 of the next row of tubes, (2) the conservatism in the bases for establishing the plugging criterion, and (3) the lack of any evidence of additional tube leak since the last inspection (Plant has operated for over 5 months), we conclude that the current operating interval may be extended 10 days without significantly affecting our assurance that the steam generator tubes will maintain an acceptable degree of integrity.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: March 23, 1979

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-251FLORIDA POWER AND LIGHT COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 38 to Facility Operating License No. DPR-41, issued to Florida Power and Light Company, which revised Technical Specifications for Operation of the Turkey Point Nuclear Generating Station Unit No. 4, located in Dade County, Florida. The amendment is effective as of the date of issuance.

The amendment extends the current cycle 5 operating period before shutdown for steam generator inspections from six months to six months and ten days of equivalent operation (reactor coolant above 350°F).

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

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